

**TOWN OF SAN ANSELMO
STAFF REPORT**

For the Meeting of June 12, 2012

TO: Town Council
FROM: Debra Stutsman, Town Manager
SUBJECT: Appointments to the Tax Equity Board and Flood Committee

RECOMMENDATION

That Council appoint one applicant to the Tax Equity Board and two applicants to the Flood Committee.

DISCUSSION

The Tax Equity Board has a membership of 3 seats. There are two vacancies available. Jay Weill has reapplied for a position. He was interviewed on May 22, 2012.

The Flood Committee has a membership of 5 seats. There are three vacancies available. Richard Stutsman and Glenn Dearth have reapplied. They were interviewed on various dates.

Their applications are attached herewith.

The status report on current openings on Town Boards/Commission/Committees is also attached.

Respectfully submitted,



Debra Stutsman
Town Manager

Attachment No. 1 Status Report
Attachment No. 2 Applications

**TOWN OF SAN ANSELMO
BOARDS/COMMITTEES/COMMISSIONS
STATUS REPORT
As of 05/22/12**

Board, Committee, Commission (total seats)	Seats Expiring/ Vacant	Applicants	Date Interviewed
Arts Commission 9 seats + 1 youth <i>Dave Donery</i>	1 vac		
Board of Review 5 seats	2 vac		
Flood Committee 5 seats <i>Sean Condry</i>	3 exp	Glenn Dearth* Richard Stutsman*/** Erik Stromberg**	4/10 5/22
Historical Commission 11 seats <i>Linda Kenton</i>	2 vac		
Library Advisory Board 5 seats + 1 youth <i>Linda Kenton</i>	3 exp	Ted Freeman*/** Tina Kroot*/**	
Library Tax Oversight Committee 5 seats <i>Linda Kenton</i>			
Marin Commission On Aging 1 seat	1		
Marin County Hazardous & Solid Waste Authority 1 seat			
Capital Programs Monitoring Committee 6 seats <i>Sean Condry</i>			
Mosquito Abatement District 1 seat			
Open Space Committee 11 seats + 1 youth	3 exp		
Parks & Recreation Commission 7 seats + 1 youth <i>Dave Donery</i>	1 exp	Kathleen Holtzer*/**	
Planning Commission 7 seats <i>Diane Henderson</i>	2 exp		
Quality of Life 7 seats <i>Debbie Stutsman</i>	1 vac 4 exp	Woody Weingarten* David Behrs Sita Khufu* Jelani Bertoni Quinne Fokes*/** Chantal Maher**	4/10 4/24 5/22 5/22
Ross Valley Paramedic Authority 1 seat <i>Roger Meagor</i>			
Tax Equity Board 3 seats <i>Daria Carrillo</i>	1 vac 1 exp	Jay Weill*	5/22

* Incumbent
** Waiting for interview



Received

MAR 19 2012

TOWN OF SAN ANSELMO

Town of San Anselmo

525 San Anselmo Ave, San Anselmo, CA 94960

APPLICATION FOR APPOINTMENT TO A SAN ANSELMO BOARD/COMMISSION/COMMITTEE

To: San Anselmo Town Council

Date: 3/17/12

I wish to apply for an appointment to a term/balance of term of the

TAX EQUITY BOARD

Incumbent

New Member

Name: JAY DBILL

Home Address: 1 ALONSO TERRACE

Occupation: ATTY

Employer's Address: ONE BOMBARDIERO SF 94111

Home Phone: 459-1689

Work Phone: 433-3939

Fax: _____

E-Mail: JDBILL@SIDEMAR.COM

Number of Years as a resident of San Anselmo: 34

In Marin: 34

Education Level Achieved:

- Graduate Degree (Major: _____)
- College or University Degree (Major: _____)
- Some College
- High School Diploma
- Other (Explain: _____)

Names and phone numbers of San Anselmo residents who can be contacted for referral information about me:

1. MARA CAMORTE 203-0528
2. BILL ABRIGHT 497-5082
3. MICHAEL SCHWAB 517-6660

YES NO

____ I would be able to regularly attend the meetings of this Board/Commission/Committee.

____ I would be available to attend additional meetings when they are necessary.

____ I am familiar with the responsibilities and functions of this Board/Commission/Committee.

____ I have attended meetings of the Board/Commission/Committee as a member of the public.

List briefly, previous experience serving in public office, and/or on civic commissions, boards, or committees:

I have been a member of the Board for approx 10 years

Reasons for this appointment:

To continue to support the town

What are your qualifications for this appointment:

I am familiar with financial issues based on my 30 years as a federal prosecutor.

Briefly, what do you consider to be the most important, one or two current issues facing this Board/Commission/Committee?

No important issues, but the tax equity board

I understand that I, and all other applicants, will be personally interviewed by the Town Council as part of the selection process for this appointment.


Signature

3/17/2012
Date

Other Boards, Commissions, or Committees on which you would be interested in serving if not appointed to this seat?

None

Do you wish to be considered again if you are not selected for this appointment?

Yes No

(You may attach personal resumes or other information which you believe would be helpful to the Council in its selection process.)

Thank you for your interest in serving the Town of San Anselmo and its citizens.
For further information, please contact Jeannie Courteau, Administrative Services Assistant I at (415)258-4691.



Received
MAR 12 2012

TOWN OF SAN ANSELMO

Town of San Anselmo

525 San Anselmo Ave, San Anselmo, CA 94960

APPLICATION FOR APPOINTMENT TO A SAN ANSELMO BOARD/COMMISSION/COMMITTEE

To: San Anselmo Town Council

Date: 3/8/12

I wish to apply for an appointment to a term/balance of term of the

Flood Committee

Incumbent

New Member

Name: Richard Statman Home Address: 152 Hilldale Drive

Occupation: Civil Engineer Employer's Address: Retired

Home Phone: 456-3090 Work Phone: 497-2941 Fax: 456-8090 E-Mail: rdstatman@gmail.com

Number of Years as a resident of San Anselmo: 35 In Marin: 35

Education Level Achieved:

- Graduate Degree (Major: _____)
- College or University Degree (Major: BS Civil Engineer)
- Some College
- High School Diploma
- Other (Explain: _____)

Names and phone numbers of San Anselmo residents who can be contacted for referral information about me:

1. Fire Chief Roger Meager 258-4687
2. John Grey - Attorney at Law 457-6444
3. Ford Greene 258-0360

YES NO

<input type="checkbox"/> I would be able to regularly attend the meetings of this Board/Commission/Committee.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> I would be available to attend additional meetings when they are necessary.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> I am familiar with the responsibilities and functions of this Board/Commission/Committee.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> I have attended meetings of the Board/Commission/Committee as a member of the public.	<input checked="" type="checkbox"/>	<input type="checkbox"/>

List briefly, previous experience serving in public office, and/or on civic commissions, boards, or committees:

4 years on existing Flood Committee

Reasons for this appointment:

To provide part of my 40 years of experience in the field of hydraulics and engineered structures to the town and the Flood Committee

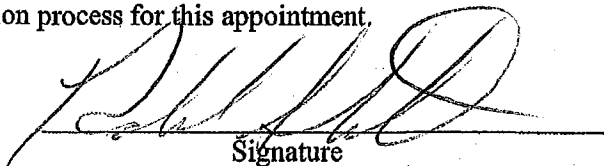
What are your qualifications for this appointment:

- 1) BSCE
- 2) 45 years in the water Resources field, including design, construction, hydraulics, hydrology and committee work

Briefly, what do you consider to be the most important, one or two current issues facing this Board/Commission/Committee?

Getting past the politics and get a flood protection system designed, funded and constructed

I understand that I, and all other applicants, will be personally interviewed by the Town Council as part of the selection process for this appointment.


Signature

3/20/12
Date

Other Boards, Commissions, or Committees on which you would be interested in serving if not appointed to this seat?

N/A

Do you wish to be considered again if you are not selected for this appointment?

Yes No

(You may attach personal resumes or other information which you believe would be helpful to the Council in its selection process.)

Thank you for your interest in serving the Town of San Anselmo and its citizens.
For further information, please contact Jeannie Courteau, Administrative Services Assistant I at (415)258-4691.

RICHARD D. STUTSMAN, P.E.
152 Hilldale Drive, San Anselmo, CA 94960

QUALIFICATIONS

- BS-Civil Engineering, P.E. License, 40 years experience in Civil Engineering work for Hydroelectric facilities
 - Expertise and National recognition in penstock engineering
 - Expertise in all phases of hydroelectric development, including feasibility studies, hydrology, project development, construction, startup, operations, safety evaluations, upgrades and project management
 - Experience in supervision (6 Civil Engineers, 1 designer and 1 draftsman), project management and contract management
 - Experience in development of standards and guidelines for use by national and international organizations
-

PROFESSIONAL EXPERIENCE

Engineering Consultant – (2006 to Present)

- **Consulting Board**
Review the design documents and construction activity for Montrose and Toba Creek Hydroelectric Projects. Construction by Kiewit Construction and owned and operated my Plutonic Power Corporation.
- **Peer Review**
Providing a peer review of Mocassin Penstock Safety Evaluation by CH2MHill. Reporting directly to Hetch Hetchy's General Manager
- **Design Review**
Providing design reviews for various hydroelectric projects and components for Black and Veatch.
- **Misc. Work**
Scaffolding system review and approval for numerous CalTrans Projects bridges

Fusion Bonded Coating Systems, Inc. – (2000 to 2006)

VICE PRESIDENT AND OPERATIONS MANAGER

- **Designed and supervised construction of reinforcing steel coating facility**
With a \$13,000,000 contract on San Mateo Bridge, with liquidated damages, I designed and supervised construction of the coating facility to coat reinforcing steel. Design and construction was completed in 4 months and we were able to meet the required construction schedule.
- **Successful bidding of major Caltrans Projects**
Successful bidder and managed coating for San Mateo Bridge, Richmond-San Rafael Bridge, San Francisco Bay Bridge, Benicia Bridge, Noyo River Bridge, and Alameda Tunnel and met all construction schedules; \$15,000,000 in work
- **Designed and constructed pipeline coating facility**
In order to diversify and tap other coating markets, I designed and built a batch coating system that included an ID/OD pipe coating system, batch oven and coating booth. Work for this coating line included waterworks piping and fittings, wine barrel racks, fencing, and automobile parts

QA/QC MANAGER

- **Developed and Implemented QA/QC Manual for Steel Structures Painting Council QP1, QP2, and QP3**
This is a comprehensive program that is managed by SSPC (Steel Structures Painting Council), and required my many owners (DOT's and Municipalities) to insure a highly qualified contractor and work process. We received a 97% rating of development of QA/QC Manual by SSPC.
- **Field Inspections and Audits**
As QA/QC Manager, I would retinely inspect job site work, on a random basis, and perform a field audit. I would also review and audid all field documentation to insure they were in compliance with then manuals.
- **Production Management of ABC Painting**
Overhauled ABC Painting operation procedures and operation to increase production, reduce repairs, and improve Company revenues. After 1 year, production increased by 75%, repairs reduced by 50% and revenues increased by 25%.

Ensign & Buckley; Larkspur, California - (1993 to 1997)

SENIOR CIVIL ENGINEER

- **Development of a Steel Penstock Safety Assessment Program**
This program was developed to help owners/operators implement a Penstock Safety Program that will soon be mandated by the FERC. The services offered owners/operators will include tailoring the program for specific facilities, implementation of the program and any engineering and construction services that may be required as an outcome of the program.
- **Penstock Safety Assessment Assèssments**
 - * Performed penstock safety assesement for Portland General Electric's Faraday Unit 6 penstock
 - * Performed FERC Part 12 and penstock safety assessment for Humbolt Bay Munciple Water District at Ruth Dam
- **Rehabilitation Projects:**
 - * Project Engineer for rehabilitation of the El Dorado Hydroelecric Project. Work included replacement of 1920's vintages turbine and relief valve with new injector and deflectors, relining of penstock, and replacement of wood stave pipeline with ring girder support pipeline.
- **Miscellaneous Assignments**
 - * Independent project assessment for purchase of two hydroelctric projects: One in Montana for a timber company and second in California for a irrigation district.
 - * Expert witness for cause and responsibility for failure of buried penstock in California.
 - * Chairman of a Board of consutltants to review standard of care for the design and construction of the State of California, Department of Water Resources water distribution pipeline project.
 - * Technical review of tunnel liner design for water conveyance system.
 - *

Pacific Gas & Electric Company; San Francisco, California - (1973 to 1993)

SENIOR CIVIL ENGINEER - (1985 to 1993)

- **Developer and Program Manager for Water Conveyance System Safety Program**
This program has been structured to provide a complete safety and operational assessment of the penstocks for PG&E's 71 hydroelectric facilities. Phase two of this program will incorporate tunnels, canals and flumes into the program.
- **Implementation of Recoating and Relining Program for Company's Penstocks**

Responsible for developing a R&D program and implementing a systematic production program for relining and recoating penstocks using state-of-the-art materials and surface preparation processes.

- **Repair and Replacement Projects**

Responsible for developing and implementing repairs and/or replacement of penstocks for PG&E's 71 hydroelectric facilities. Work included procurement and construction specifications.

- **Failure Analysis**

Performed failure analysis of failed cast steel needle body due to excessive pressure rise at the El Dorado Hydroelectric Project.

Responsible for all Civil O&M work since the project went into commercial operation in 1983. This included coordination of Civil, Mechanical and Electrical work for facility, implementing a monthly ground water monitoring program, supervision of yearly access tunnels maintenance program, supervision of a penstock field weld in-service inspection program, supervised penstock corrosion evaluation, performed tunnel inspections for developing long term maintenance work and supported Project Superintendent with ongoing O&M work.

Responsible for the development of new hydroelectric projects, including layout, supervision of the design, cost estimates, schedules, procurement and construction specifications, construction support and startup testing. This work involved pumped storage as well as conventional hydroelectric facilities.

- **Startup Testing of Hydroelectric Projects**

Civil startup engineer for all new and upgraded hydro facilities. Work included coordination of testing personnel, equipment and testing procedures, on-site waterhammer analysis and evaluation of startup test report preparation.

- * Kerckhoff 2 Project: (1 Unit - 155 MW)
- * Newcastle Powerhouse: (1 Unit - 14 MW)
- * Helms Pumped Storage Project: (3 Units - 1200 MW)
- * Wise 2 Powerhouse: (1 Unit - 3.2 MW)
- * Caribou 1 Powerhouse: (3 Units - 75 MW)
- * Oak Flat Powerhouse: (1 Unit - 1.3 MW)
- * Caribou 2 Powerhouse: (2 Units - 120 MW)
- * Toad Town Powerhouse: (1 Unit - 1.5 MW)

Major Projects

Grizzly Project (\$70M): Approving authority for Civil Engineering design of the intake, TBM tunnel, surge chamber, penstock and powerhouse.

Wise 2 Project (\$7M): Project Engineer and Coordinator for Civil design of a penstock tunnel, parallel penstock (including 3 wye branches), Powerhouse, tailrace conduits and supplemental pressure relief valve system. Responsibilities included direction of all Civil design work, preparation of fabrication and construction specifications, administration of fabrication contract and coordination of Civil/Mechanical/Electrical activities with PG&E and Contractor Construction forces.

CIVIL ENGINEER - (1976 to 1985)

- **Perform civil engineering for various hydroelectric projects**
Responsible for design of a new underground hydroelectric project.
Supervised design of additions and modifications to existing PG&E's hydroelectric facilities.
Coordinate with operations personnel and construction forces.
Performed feasibility studies for new Pumped Storage Projects.

Major Projects

Kerckhoff 2 Project (\$151M)

In charge of the civil, structural and hydraulic design of the intake and discharge structures, TBM (Tunnel Boring Machine) tunnel, surge chamber and hydraulic gates. Responsibilities included preparing the civil design criteria, supervising development of construction drawings, preparing fabrication and construction specifications, and administering fabrication contracts. The work required coordination with other PG&E departments and outside agencies.

Helms Pumped Storage Project (\$1 MM)

Performed construction support throughout the construction phase of the Project. Also, supervised portions of rebuilding of Lost Canyon Crossing and provided construction support after its failure in 1981 due to a cracked weld. Performed on-site Civil startup work for the five startup phases.

Performed Field Engineering for Various Hydroelectric Projects

Prepared drawings and specifications for additions and modifications to various hydroelectric projects including powerhouses, penstocks, flumes, tunnels, dams, bridges and switchyards.

- **Helms Pumped Storage Project**
Responsible for the structural and hydraulic design and analysis of the following features:
 - Penstocks: above and below ground, wye branch hydraulic analysis and hydraulic resonance analysis
 - Design of trashrack, bulkhead and draft tube gates and operating systems

EDUCATION AND PROFESSIONAL ACTIVITIES

EDUCATION

- BS-Civil Engineering, California State Polytechnic University, 1973

PROFESSIONAL REGISTRATION

- Professional Civil Engineer, State of California P.E. No. 25734
- Licensed A (Engineering) & B (Building) Contractor, State of California License No. 410332
- NACE (National Association of Corrosion Engineers) Certified Coating Inspector: No. 5664

PROFESSIONAL AFFILIATIONS

- American Society of Civil Engineers – Member
- American Society of Testing and Materials – Member
- Chairman of ASCE Task Committee to develop a Penstock Code entitled "Steel Penstocks", 1989-1992
- Chairman of ASCE Energy Division Hydro Power Committee; 1991-1993
- Chairman of ASCE Energy Division Executive Committee; 1995-1998
- 1990, 1994 & 1999 recipient of ASCE Rickey Medal

COMMUNITY INVOLVEMENT

- Volunteer Firefighter for Ross Valley Fire Department (34 years)
- Participant on San Anselmo and Marin County Flood Committees
- Chairman of Marin County Chapter of Ducks Unlimited

TECHNICAL PUBLICATIONS

- Co-authored paper entitled "*Failure Analysis of Pumped Storage Trashracks*"; presented at Hydraulics Specialty Conference, August 1979, rewrite published by Hydro Review (1994).
- Co-authored paper entitled "*Hydraulic Transient Analysis for the Helms Pumped Storage Project*"; presented at WATERPOWER '85.
- Authored paper entitled "*TBM Friction Values for the Kerckhoff 2 Project*"; presented at WATERPOWER '87.
- Co-author of "*Hydroelectric Guidelines in Civil Engineering*"; prepared section on Penstocks; published by ASCE/EPRI (1989), 5 volume set of Guidelines, International distribution.
- Authored paper entitled "*Upgrading Trashraking Equipment During Scheduled Maintenance Outages*". Presented at WATERPOWER '89.
- Co-authored paper entitled "*Structural Analysis for Riveted Penstocks*". Presented at WATERPOWER '89.
- Co-authored paper entitled "*Hydraulic Transients for the Wise 2 Project*". Presented at WATERPOWER '89.
- Authored paper entitled "*New Interior Lining for Welded Riveted Penstocks*". Presented at WATERPOWER '91.
- Authored paper entitled "*Development and Writing for the ASCE Manual of Practice for Steel Penstocks*". Presented at WATERPOWER '91.
- Co-authored paper entitled "*Pressure Control Studies for PG&E's 20 MW Grizzly Hydroelectric Project*". Presented at WATERPOWER '91.
- Authored paper entitled "*Taking the Muscle out of Trashraking*". Published in Hydro Review (August 1991).
- Chairman for development and Co-author of "*Manual of Practice for Steel Penstocks*". Published by ASCE (1993).
- Co-authored monograph "*Hydraulic Design of Reversible Flow Trashracks*". Published by ASCE (1993).
- Authored paper entitled "*New Low Cost Surface Preparation Process for Relining Existing Penstocks*". Presented at WATERPOWER '93 and rewrite presented at 1994 American Power Conference.
- Authored paper entitled "*Innovations in Penstock Lining*". Published in Hydro Review (May 1993).
- Authored paper entitled "*Avoiding Trashrack Failures at Pumped-Storage Projects*". Published in Hydro Review (6/94)
- Co-authored paper entitled "*TBM Tunnel Friction Values for the Grizzly Powerhouse Project*". Presented at WATERPOWER '95.
- Authored paper entitled "*Penstock Safety: Proactive or Reactive*". Published by ASCE, Journal of Energy Engineering, April 1996.

Project Development	Accomplishments	Value
Helms Pumped Storage Project	<p>Performed work on all phases of the project. Began as a design engineer with responsibilities for penstock, tunnels, trashrakes and gates. Work continued through the construction phase by providing construction support and then into the startup phase as the civil startup engineer responsible for coordination of testing personnel, equipment and testing procedures, on-site waterhammer analysis and evaluation, and startup test reports. Continued O&M support work was provided since the facility going into Commercial Operation. Work began in 1973 and continued until 1993.</p>	<p>\$1 billion construction cost.</p>
Kerckhoff 2 Project	<p>Responsible Civil Engineer in charge of civil structures except the powerhouse, and including the TBM (Tunnel Boring Machine) tunnel. Responsibilities included direction of Civil design work, fabrication and construction specification preparation, contract administration and Civil/Electrical/Mechanical coordination. Continued by providing construction support and finally as the civil startup engineer responsible for coordination of testing personnel, equipment and testing procedures, on-site waterhammer analysis and evaluation, and startup test reports. (1977-1983)</p>	<p>\$151 million estimated construction cost.</p>
Wise 2 Hydroelectric Project	<p>Project Engineer and Coordinator for Civil design of a penstock tunnel, parallel penstock (including 3 wye branches), Powerhouse, tailrace conduits and supplemental pressure relief valve system. Responsibilities included direction of all Civil design work, preparation of fabrication and construction specifications, administration of fabrication contract and coordination of Civil/Mechanical/Electrical activities with PG&E and Contractor Construction forces. Continued by providing construction support and finally as the civil startup engineer responsible for coordination of testing personnel, equipment and testing procedures, on-site waterhammer analysis and evaluation, and startup test reports. (1986-1989)</p>	<p>\$7 million estimated construction cost.</p>

Representative Work Experience**Richard D. Stutsman**

Penstock Safety Evaluations	Accomplishments	Value
Penstock Safety Program	Supervised 7 civil engineers and 1 draftsman responsible for performing structural and hydraulic analysis on the penstocks for 71 hydroelectric facilities. This program is a pro-active approach to review and assess each of the facilities penstocks to maximize facility safety and power production, minimize unscheduled outages, minimize the expenditure of unbudgeted funds. This is anticipated to be 10 year program.	\$550,000 annual budget.
El Dorado Penstock	Responsible for directing technical work for evaluating complete structural assessment of the 1921 vintage forge welded penstock. Developed state-of-the-art techniques for detecting and evaluating flaws in the forge welds. Assessment also focused on mechanical equipment and their effects on operating loads in the penstock.	\$300,000 evaluation cost.
Tule, Balch 1& 2, Caribou 1, Kilarc & Haas, Bucks	Responsible for directing technical work for evaluating complete structural assessment of the 1920 - 1950 vintage riveted and forge welded penstocks. Also performed assessment of coatings and linings	\$10,000 to \$140,000 evaluation costs.

Representative Work Experience

Richard D. Stutsman

Penstock Repair/Replacement	Accomplishments	Value
Balch No. 1 Powerhouse Penstock	Supervised the design for repair of cracks in 2,380' head, 1921 vintage penstock. Penstock was constructed of cast steel, forge weld and banded sections of pipe. Work encompassed failure analysis, fast track design and fabrication procurement, and construction support.	\$4.5 million construction cost.
Poe Penstock	Supervised design and construction of repair of buckled steel tunnel liner for 1930 vintage penstock. Work involved fast tracking repair/replacement schemes to minimize outage time.	\$350,000 construction cost.
El Dorado Project	Responsible for coordination of failure analysis for a failed turbine needle valve body. The failure analysis was to pin point cause so that the adjacent unit could be evaluated for fitness for service. Work included finite element analysis, fracture mechanics and forensic analysis of damaged piece.	\$90,000 to \$1.2 Million, depending on economics of project
Lost Canyon Crossing	Team member to redesign and construct new 22' diameter above ground supported pipe system and tunnel liner evaluation to replace failed section. Work was on a fast track basis where design and construction were completed in less than 11 months.	\$2 Million replacement cost
Coleman Siphons and Penstock	Responsible for structural assessment of 12,000' of siphon and penstock to evaluate suitability for relining or replacement	\$100,000 study cost
Belden Siphon Stabilization Project	Supervised the Belden Siphon Stabilization Project which included inspection of the initial hillside and penstock movement, implementing the instrumentation and monitoring program, developing an emergency action plan, siphon realignment work, preliminary hillside anchorage design and construction cost estimates. Final design work is still ongoing	\$1,000,000 approximate sunk repair costs; cost incurred since 1986
El Dorado Hydroelectric Project	Design Engineer and Project Engineer for replacement of 60" wood stave pipeline with ring girdered supported pipeline.	\$650,000 construction cost.

Representative Work Experience

Richard D. Stutsman

Penstock Relining/Recoating Projects	Accomplishments	Value
Caribou No. 1 Penstock	Coordinated relining project for 3-42" diameter penstocks, 1000 feet long with limited access. Project involved a joint effort between PG&E and a Contractor for surface preparation and material application. Work involved 4 years of testing and planning because of the use of new technologies, complexity and difficulty of project.	Saved approximately \$250,000 on job by implementing new waterblast process.
El Dorado Hydroelectric Project	Project Engineer for relining of 4,500 feet of 30" to 54" diameter penstock. Slope varied from 5° to 60°. Project involved abrasive blasting and relining with 100% solids polyurethane, applied primerless.	Project cost was \$1,400,000.

Environmental	Accomplishments	Value
Research and Development - Materials	Developed and coordinated work associated with testing and approving replacement relining materials for coal tar epoxies. The goal was to develop a list of materials that could be 100% solids, be applied primerless and would seal riveted penstock joints, where applicable. The results of tests were successful and the materials are being used throughout PG&E's penstock reline jobs and also nationwide.	Eliminated the use of environmental unsafe coal tar epoxies and provided better alternatives. Also demonstrated that polyurethane's can be used to prevent leakage around riveted joints
Research and Development - Surface Preparation	Developed and coordinated work associated with the use of waterblasting instead of sandblasting for surface preparation for penstock relining projects. The results showed that waterblasting provided greater adhesions strengths, lower construction costs and shorter outage duration's.	The use of waterbasting can reduce the cost of surface preparation by 50% and shorten the project outage time.



Received
MAR 05 2012

TOWN OF SAN ANSELMO

Town of San Anselmo

525 San Anselmo Ave, San Anselmo, CA 94960

APPLICATION FOR APPOINTMENT TO A SAN ANSELMO BOARD/COMMISSION/COMMITTEE

To: San Anselmo Town Council

Date: March 5, 2012

I wish to apply for an appointment to a term/balance of term of the

FLOOD COMMITTEE

Incumbent

New Member

Name: Glenn Dearth

Home Address: 546 Scenic Avenue

1050 Northgate Drive, Suite 315

Occupation: Civil Engineer

Employer's Address: San Rafael, CA 94903

gdearth@

Home Phone: 456-7021

Work Phone: 446-7402

Fax: 446-7419

E-Mail: LTDengineering.com

Number of Years as a resident of San Anselmo: 25

In Marin: 27

Education Level Achieved:

- Graduate Degree (Major: _____)
- College or University Degree (Major: BS Civil Engineering)
- Some College
- High School Diploma
- Other (Explain: _____)

Names and phone numbers of San Anselmo residents who can be contacted for referral information about me:

1. Jonathan Braun 459-6973

2. Rick Wachs 686-6806

3. Alice Rich 485-2937

YES

NO

_____ I would be able to regularly attend the meetings of this Board/Commission/Committee.

x

_____ I would be available to attend additional meetings when they are necessary.

x

_____ I am familiar with the responsibilities and functions of this Board/Commission/Committee.

x

_____ I have attended meetings of the Board/Commission/Committee as a member of the public.

x

List briefly, previous experience serving in public office, and/or on civic commissions, boards, or committees:

Served on Flood Committee from 2006 to date

Reasons for this appointment:

The Town is at the beginning of a long-term County plan to construct flood control facilities aimed at reducing flood risk. I can provide practical engineering assistance in reviewing plans, providing engineering recommendations, advising decision makers and communicating the proposed plans to the public.

What are your qualifications for this appointment:

Civil engineer with extensive experience in water resources engineering, including flood hydrology, flood plain computer modeling, hydraulic analysis, flood control design, drainage system design, stream channel restoration and wetland development. Owner of a civil engineering consulting and design business.

Briefly, what do you consider to be the most important, one or two current issues facing this Board/Commission/Committee?

Implementation of the County flood control project in a way that provides an effective reduction in flood risks within the constraints of existing urban development in the Town.

I understand that I, and all other applicants, will be personally interviewed by the Town Council as part of the selection process for this appointment.



Signature

March 5, 2012

Date

Other Boards, Commissions, or Committees on which you would be interested in serving if not appointed to this seat?

Do you wish to be considered again if you are not selected for this appointment? Yes No

(You may attach personal resumes or other information which you believe would be helpful to the Council in its selection process.)

Thank you for your interest in serving the Town of San Anselmo and its citizens. For further information, please contact Jeannie Courteau, Administrative Services Assistant I at (415)258-4691.

LTD Engineering, Inc.

GLENN D. DEARTH, PE

Title Principal

Expertise Water Resources Engineering and Hydraulic Analysis
Computer Modeling
Hydrology and Water Quality
Flood Control and Stream Channel Restoration
Utility Planning and Design

Experience Responsible for planning, analysis, computer modeling and design of water resources projects, including water supply development, utility systems, drainage systems, irrigation systems, stream restoration and flood control projects. Representative projects completed over the last 35 years include:

Water Resources Engineering and Hydraulic Analysis

- Developed and evaluated conjunctive use water supply alternatives for the City of Woodland, California. Evaluated feasibility of a new surface water diversion from the Sacramento River, together with new groundwater recharge basins and existing well fields, to provide a reliable water supply for future municipal and agricultural water demand.
- Project Manager and Principal Engineer for design and construction of the Freeman Diversion Improvement Project, a 1,200-foot-long roller-compacted concrete diversion dam on the Santa Clara River in southern California. The project supplies water to groundwater recharge basins designed to reverse the effects of saltwater intrusion into the freshwater aquifer. Designed a diversion dam, canal, fish passage facilities, sediment flushing channel for bed load removal, and settling basin for suspended sediment removal. Designed streambank erosion protection along a 5,000 foot-long reach of the Santa Clara River. Modeled sediment transport in the Santa Clara River using the program HEC-6.
- Prepared construction drawings and specifications for six earthfill dams in Hayward, California. The reservoir at each dam provides habitat for red legged frogs, as required under the mitigation plan for a proposed residential development and golf course.
- Analyzed alternatives for modifying the reclaimed water storage reservoirs at the Irvine Ranch Water District. Analyzed the technical feasibility of storage improvements and modified operation plans that would comply with the watershed management and water quality protection requirements set by the Regional Water Quality Control Board.
- Prepared the water supply plan for a proposed 10,000-acre residential-commercial and irrigated-agricultural development in central California. Calculated water demand, evaluated alternative dam sites, and developed water supply and distribution system plans. Prepared plan to protect the watershed and water quality.

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- Conducted a hydraulic and structural inspection and analysis of Healdsburg Memorial Dam. Inspected and measured critical components of the 50 year-old dam, including steel foundation piles. Analyzed hydraulic loading and structural stability. Developed recommendations for repairs to extend the life of the dam.
- Conducted dam safety inspections and spillway hydraulic analyses for water supply dams in Kodiak and the interior of Alaska.
- Prepared hydropower feasibility studies and license applications for more than forty projects in California, the Pacific Northwest, and Alaska. Developed reservoir and hydropower operation plans using the computer program HEC-5.
- Evaluated water supply alternatives and potential groundwater impacts for the Carbon II coal mine and coal-fired power plant near Piedras Negras, Mexico. Performed hydrologic and hydraulic analysis of proposed surface water diversions from the Rio Bravo del Norte, taking into consideration existing water right treaties between Mexico and the U.S. Evaluated potential systems for transferring surface water through a proposed pipeline and canal system.
- Evaluated surface water and groundwater development alternatives for livestock water points in Somalia. Determined technical feasibility, prepared conceptual designs and cost estimates, and evaluated local capabilities for construction, operation, and maintenance. Prepared portions of the project paper for the USAID-funded project.
- Designed a large floodgate structure for improving recession agriculture along the Senegal River in Mauritania. Conducted field investigations, developed design criteria, evaluated construction, operation and maintenance capabilities, and prepared design drawings and a construction cost estimate. Prepared portions of the project paper for the USAID-funded project.

Computer Modeling

- Developed project specific computer models for a water supply and sewerage master plan for the Jaffna Peninsula in Sri Lanka. Calculated municipal, industrial and agricultural water demand. Analyzed groundwater basin and pipe network hydraulics. Designed a groundwater infiltration gallery system. Developed computer models for economic analysis of the project.
- Developed a computer model of the water supply pipeline network and surface-water drainage canal system in Medan, Indonesia. Evaluated hydraulic performance of planned system improvements.
- Developed irrigation water management and scheduling computer models for the USAID-funded Gal Oya Irrigation Project, a 150,000-acre irrigation scheme in Sri Lanka. Modeled crop-water requirements and the operation of seven reservoirs, a main canal, eight secondary canals and nearly 100 offtakes. Developed and implemented a water management training program.

Hydrology and Water Quality

- Prepared hydrologic analyses and conceptual designs at ten potential sites for new reclaimed water storage dams and reservoirs for the City of Santa Rosa, California. Developed spillway design flows and sized spillways for each dam. Conducted a dam break analyses and prepared inundation maps using the computer model HEC-1

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- Conducted hydrologic investigations of the Russian River to determine the effect of alternative reclaimed water disposal plans. Completed statistical analyses of low flow data and prepared hydrologic models of the Russian River and major tributaries. Developed 30 years of sequential streamflow data for the Laguna de Santa Rosa using the National Weather Service River Forecast System model.
- Prepared final designs for reconstruction of the stormwater facilities at the Boeing aircraft assembly plant in Everett, Washington. The project includes: a sediment control dam to capture the first flush sediments; a stormwater detention dam to regulate peak flows; a new enlarged spillway; an engineered wetland for water quality control; and restoration of North Powder Creek to provide salmon spawning and rearing habitat. Reservoir operation and spillway hydraulic analyses modeled using HEC-1.
- Prepared hydrologic and hydraulic analyses for the Macal River hydroelectric project in Belize. Conducted a field reconnaissance to obtain data and verify site conditions. Prepared preliminary designs for a diversion dam and spillway. Developed flood profiles and powerhouse tailwater rating curves. Developed a sediment control plan using large sluiceways in the diversion dam and a sediment excluder at the power tunnel entrance.
- Estimated potential water quality impacts of several highway improvement projects, including the Benicia-Martinez Bridge improvement EIS/EIR. Developed mitigation strategies to minimize water quality impacts.
- Used the computer model HEC-1 to analyze the flood hydrology, operation plans and spillway hydraulics for more than 150 sediment control dams at the Black Mesa and Kayenta coal mines in Arizona.
- Prepared construction and reclamation erosion control plans for a 26-mile oil pipeline in Santa Barbara County, California. Designed streambank stabilization and erosion protection for nearly 30 creeks and rivers crossed by the pipeline.

Wetland Design and Stream Channel Restoration

- Prepared stream channel restoration plans for Lion Creek through the Mills College Campus, Oakland, California. Prepared plans for dredging and restoration of Lake Aliso, construction of a sediment bypass channel to divert bedload sediment around the lake and plans for repair of the dam and spillway forming the lake.
- Prepared conceptual designs, permit applications, construction drawings and specifications to restore over two miles of flood control channel to a natural meandering stream channel and flood plain system throughout the Bernal Property in Pleasanton, California. The City's master plan for development of the property includes creation of natural stream channels, with a low-flow channel, flood plain and riparian plantings. In addition two large water quality wetlands will treat stormwater runoff before discharge to the stream channels. Provided services during construction.
- Identified watershed stabilization measures that will reduce erosion in the watershed of Lagoon Valley Lake, Vacaville, California. Prepared construction drawings and specifications for restoration work along four tributaries. The stabilization measures include grading and planting along stream channels, flattening slopes, hydraulic grade controls, willow plantings, cattle exclusion fencing in critical areas, biotechnical erosion control measures such as brush packing and trail improvements. Prepared hydraulic analyses, permit applications and grading plans for backwater channels and wetlands for the Gale Ranch residential development in San Ramon, California. Prepared final design drawings and specifications for 3.6 miles of stream channel and 11.9 acres of wetlands.

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- Prepared hydraulic analyses, permit applications and grading plans for backwater channels and wetlands for the Gale Ranch residential development in San Ramon, California. Prepared final design drawings and specifications for 3.6 miles of stream channel and 11.9 acres of wetlands.
- Analyzed instream gravel mining plans, developed stream channel restoration plans and identified potential flood plain impacts of proposed reclamation alternatives along Tres Pinos Creek in central California. Prepared flood elevations and sediment transport studies using the computer programs HECRAS and HEC-6.

Site Restoration and Landslide Repair

- Prepared grading and drainage plans for restoration of a gravel quarry in Point Richmond, California. The project included rock bolts and an earthfill buttress to stabilize the 150 foot-high quarry face. Prepared construction drawings and specifications, evaluated construction bids and provided engineering services during construction.
- Prepared construction drawings, specifications and provided services during construction for repair of a 50 foot-high landslide adjacent to an irrigation water storage reservoir in Napa County. The project included excavation and re-compaction of fill material, installation of surface and subsurface drainage systems, erosion control and native plant restoration.

Flood Plain Analysis

- Managed flood insurance studies for 43 cities and counties in Oregon. Responsible for hydrologic analysis, river hydraulics modeling, report preparation and public involvement. Flood profiles developed using the computer model HEC-2
- Conducted a flood damage assessment study for the Corps of Engineers along a 125 mile-long reach of the Willamette River in Oregon. Collected property data and developed procedures for predicting flood damage to various categories of property. Prepared methodology to predict flood damages for alternative flood regulation schemes.

Utility Planning and Design

- Prepared construction drawings for stormwater drainage system improvements in Marin County, California.
- Prepared grading plans, drainage design, utility plans and erosion control plans for several residential subdivisions and large residential estates throughout Marin County.
- Project Manager for design of infrastructure improvements at the 1,400-acre Presidio of San Francisco. Provided engineering services required by the National Park Service in connection with upgrading the existing infrastructure and converting the Presidio to a National Park. Prepared a stormwater system master plan. Developed plans for restoring three stream channels in the Tennessee Hollow area. Developed alternatives for constructing a tidal wetland along the shore of San Francisco Bay at Crissy Field.
- Project Manager for infrastructure design for the Obyan Beach Resort in Saipan. Developed a water supply plan using a combination of groundwater resources and reclaimed water to meet the potable and non-potable needs of the project. Designed water, sewer, drainage, and irrigation utilities and prepared a site grading plan and roads for the 850-acre resort consisting of 3 hotels, 3 golf courses and 300 housing units.

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- Principal engineer for the Palau Peninsula Resort in the Republic of Palau. Developed a water supply plan that uses a combination of rooftop rainwater collection and existing municipal supplies. Developed a system to transfer wastewater to an existing treatment plant and evaluated impacts on the plant operation. The project includes hotels and bungalows totaling over 400 rooms.
- Project Director for final design of the Manenggon Hills Project, a 1,300-acre destination resort in Guam. Managed a team of 100 engineers designing utilities, roads, bridges, pump stations, water supply dam and water reclamation plant. The resort includes 3,000 condominiums, hotel, and 45-hole golf course. Designed the resort irrigation system using reclaimed water to irrigate over 500-acres of landscaping and golf courses.

Professional History

Principal, LTD Engineering, Inc. 1997 to present
Manager of Engineering and Construction Services, Dames & Moore, 1985 - 1997
Water Resources Engineer, PRC Engineering, Sri Lanka, 1983 - 1985
Senior Engineer, Engineering Science, Sri Lanka, Indonesia, 1982 - 1983
Project Manager, Tudor Engineering, San Francisco, 1980 - 1982
Assistant Water Resources Dept. Manager, CH2M Hill, Portland, Oregon, 1973 - 1980

Academic Background

B.S., Civil Engineering, 1973, Oregon State University

Countries Worked In

United States, Belize, Mexico, Sri Lanka, Indonesia, Somalia, Mauritania, Guam
Saipan, Palau

Professional Registrations

Civil Engineer, California (1985)
Civil Engineer, Guam (1990)
Civil Engineer, Oregon (1977)

Professional Affiliations

American Society of Civil Engineers
U.S. Committee on Irrigation and Drainage

Publications

"Streamflow Simulation Using Deterministic Model" (co-author A. Prakash). The Journal of Irrigation and Drainage, Vol. 116, No. 4, July/August 1990.